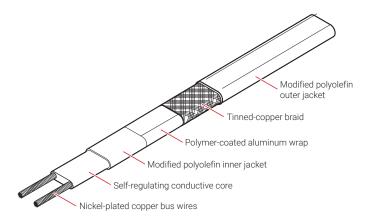
HWAT-L-M-R



SELF-REGULATING HEATING CABLES FOR HOT WATER TEMPERATURE MAINTENANCE



The nVent RAYCHEM HWAT self-regulating heating cables maintain the desired water temperature in a building's hot water distribution pipe network.

Positioned on the pipe underneath the insulation, the cables automatically compensate for pipe heat losses where they occur, thereby providing continuous, energy efficient, hot water temperature maintenance.

The HWAT system can be used to eliminate the re-circulation system altogether or to help optimise it's performance, in a hybrid approach.

In a hybrid system, recirculation loops are used on the long central pipe runs, with HWAT cables installed on all branch run outs.

Either way, a much improved solution when compared to re-circulation systems.

KEY BENEFITS

HWAT SYSTEM

- Improves delivery of instant hot water at the tap, compared to re-circulation systems
- Environmentally friendly, with significant energy and water savings
- Simple to design and flexible, quick and easy to install
- No need for return pipe work, re-circulation pumps, balancing valves or complex commissioning
- · Effective operation, less maintenance, improved hygiene
- · Prevention of bacterial proliferation, with
 - Water maintained at a specific temperature level
 - No return pipework and no return of cool water into the water heater
 - Thermal shock capability (HWAT R only)
- · Advanced control & monitoring, maximum energy savings
- Space saving
- · Well established, worldwide

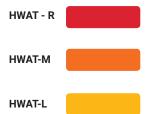
HWAT SELF REG ULATING CABLES

- nVent has more than 40 years experience in producing selfregulating heating cables and is ISO-9001 registered
- Designed and qualified specifically for use on hot water systems
- Tested and approved to IEC 62395 and IEEE 515.1
- · Energy efficient
- · Radiation cross-linked, to ensure long life expectancy
- Proven useful lifetime in excess of 40 years
- 10 year warranty
- · Complete range for all building types:
 - HWAT-L for smaller projects (single family houses, flats)
 - HWAT-M for apartments and offices
 - HWAT-R for hotels, hospitals, convalescent homes
- Aluminum foil layer to protect the self-regulating core from chemical ingress

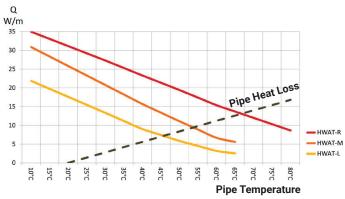
TECHNICAL DATA

Modified polyolefin Yellow Tinned copper Yes 16 AWG nickel-plated copper WEIGHT (NOMINAL) 13.8 x 6.8	HWAT-M 498639-000 Modified polyolefin Orange Tinned copper Yes 16 AWG nickel-plated copper	HWAT-R 266435-000 Modified polyolefin Red Tinned copper Yes 16 AWG nickel-plated copper	
Modified polyolefin Yellow Tinned copper Yes 16 AWG nickel-plated copper	Modified polyolefin Orange Tinned copper Yes 16 AWG nickel-plated	Modified polyolefin Red Tinned copper Yes	
Yellow Tinned copper Yes 16 AWG nickel-plated copper WEIGHT (NOMINAL)	Orange Tinned copper Yes 16 AWG nickel-plated	Red Tinned copper Yes	
Yellow Tinned copper Yes 16 AWG nickel-plated copper WEIGHT (NOMINAL)	Orange Tinned copper Yes 16 AWG nickel-plated	Red Tinned copper Yes	
Tinned copper Yes 16 AWG nickel-plated copper WEIGHT (NOMINAL)	Tinned copper Yes 16 AWG nickel-plated	Tinned copper Yes	
Yes 16 AWG nickel-plated copper WEIGHT (NOMINAL)	Yes 16 AWG nickel-plated	Yes	
16 AWG nickel-plated copper WEIGHT (NOMINAL)	16 AWG nickel-plated		
copper WEIGHT (NOMINAL)		16 AWG nickel-plated copper	
•			
13 8 x 6 8			
10.0 X 0.0	13.7 x 7.6	16.1 x 6.7	
0.12 kg/m	0.12 kg/m	0.14 kg/m	
230 VAC	230 VAC	230 VAC	
7W/m @ 45°C	9 W/m @ 55°C	n @ 55°C 12 W/m @ 70°C	
180 m	100 m	100 m	
Type C/max 20A	Type C/max 20A	Type C/max 20A	
80%	80%	80%	
10 mm	10 mm	10 mm	
65°C	65°C	85°C	
85°C	85°C	90°C	
No	No	Yes	
AND CONTROLS			
ayclic connection kits	Rayclic connection kits	Rayclic connection kits	
ntrol units HWAT-T55		ACS-30 HWAT-ECO HWAT-T55	
		BS / ÖVE / VDE / SEV / CST	
=	7W/m @ 45°C 180 m Type C/max 20A 80% 10 mm 65°C 85°C No AND CONTROLS syclic connection kits	7W/m @ 45°C 9 W/m @ 55°C 180 m 100 m Type C/max 20A Type C/max 20A 80% 80% 10 mm 10 mm 65°C 65°C 85°C 85°C No No AND CONTROLS Rayclic connection kits	

THERMAL OUTPUT RATING



HEATING CABLE POWER OUTPUT



Raychem-DS-EU0537-HWATLMR-EN-1805 nVent.com | 2

MAXIMUM CIRCUIT LENGTH IN METERS BASED ON START-UP TEMP +12°C , AC 230 V

Voltage			Max. circuit length		
Circuit breaker	size	10 A	13 A	16 A	20 A
HWAT-L	230 V	80 m	110 m	140 m	180 m
HWAT-M	230 V	50 m	65 m	80 m	100 m
HWAT-R	230 V	50 m	65 m	80 m	100 m

nVent requires the use of a 30mA residual current device (RCD) to provide a maximum safety and protection from fire. All heating circuits have to be protected by C-type circuit breaker.

United Kingdom

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Ireland

Tel 1800 654 241 Fax 1800 654 240 salesIE@nvent.com



Our powerful portfolio of brands:

CADDY ERICO HOFFMAN RAYCHEM SCHROFF TRACER